Appendix D

Baseline Water Quality Monitoring Data

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TH 1 Water sampling project

Work order number	**Date**	**Time**	**Location**	**Chemical Parameter**		Chemical parameter average	Chemical parameter median
				pH (units)	Total Sulfate (mg/L)		
11F1523	6/21/2011	13:11	Culvert #1, West Hwy 1	6.5	2.69	pH average	pH median
11J1235	10/27/2011	12:10	Culvert #1, West Hwy 1	6.5	8.52	6.53	6.50
12F1377	6/19/2012	13:05	Culvert #1, West Hwy 1	6.8	3.58		
12K0799	11/15/2012	12:35	Culvert #1, West Hwy 1	6.3	14.7	Total sulfate average	Total sulfate median
13F1710	6/21/2013	13:15	Culvert #1, West Hwy 1	6.6	3.26	5.37	3.26
13J1115	10/17/2013	12:45	Culvert #1, West Hwy 1	6.5	1.83		
14E3068	5/29/2014	11:30	Culvert #1, West Hwy 1	6.5	3.01		
11F1523	6/21/2011	13:15	Culvert #2, East Hwy 1	7.4	3.58	pH average	pH median
11J1235	10/27/2011	12:15	Culvert #2, East Hwy 1	7.2	7.49	7.40	7.5
12F1377	6/19/2012	13:15	Culvert #2, East Hwy 1	7.1	3.32		
12K0799	11/15/2012	12:00	Culvert #2, East Hwy 1	7.5	4.21	Total sulfate average	Total sulfate median
13F1710	6/21/2013	13:00	Culvert #2, East Hwy 1	7.5	3.33	4.07	3.33
13J1115	10/17/2013	12:15	Culvert #2, East Hwy 1	7.5	3.25		
14E3068	5/29/2014	11:15	Culvert #2, East Hwy 1	7.6	3.33		
11F1523	6/21/2011	13:45	6 Mile Lake	7.8	1.82	pH average	pH median
11J1235	10/27/2011	12:29	6 Mile Lake	8.1	1.67	8.11	8.1
12F1377	6/19/2012	15:00	6 Mile Lake	8.7	1.74		
12K0799	11/15/2012	12:15	6 Mile Lake	7.7	1.95	Total sulfate average	Total sulfate median
13F1710	6/21/2013	13:05	6 Mile Lake	8.5	1.34	1.63	1.67
13J1115	10/17/2013	12:30	6 Mile Lake	7.7	1.36		
14E3068	5/29/2014	11:00	6 Mile Lake	8.3	1.53		

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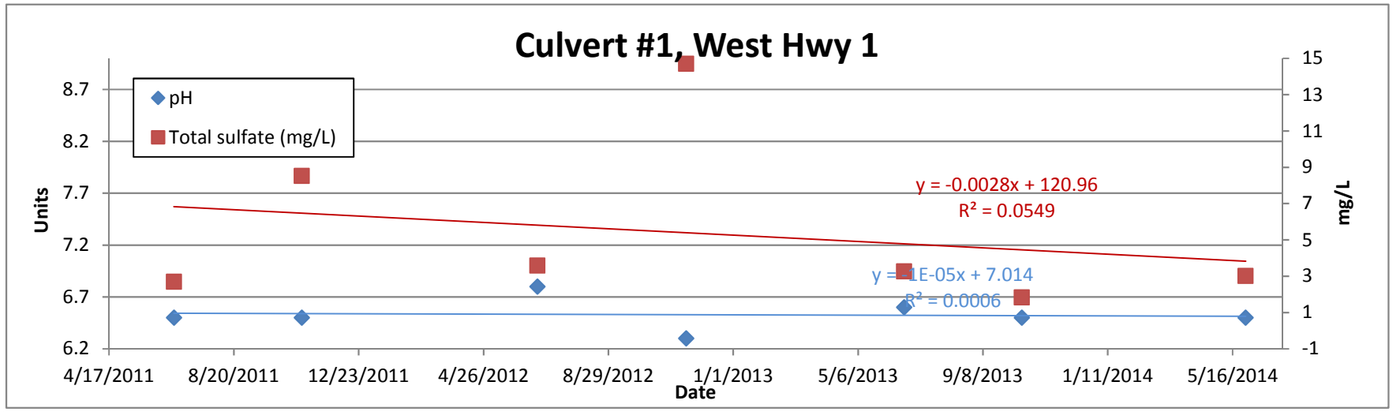
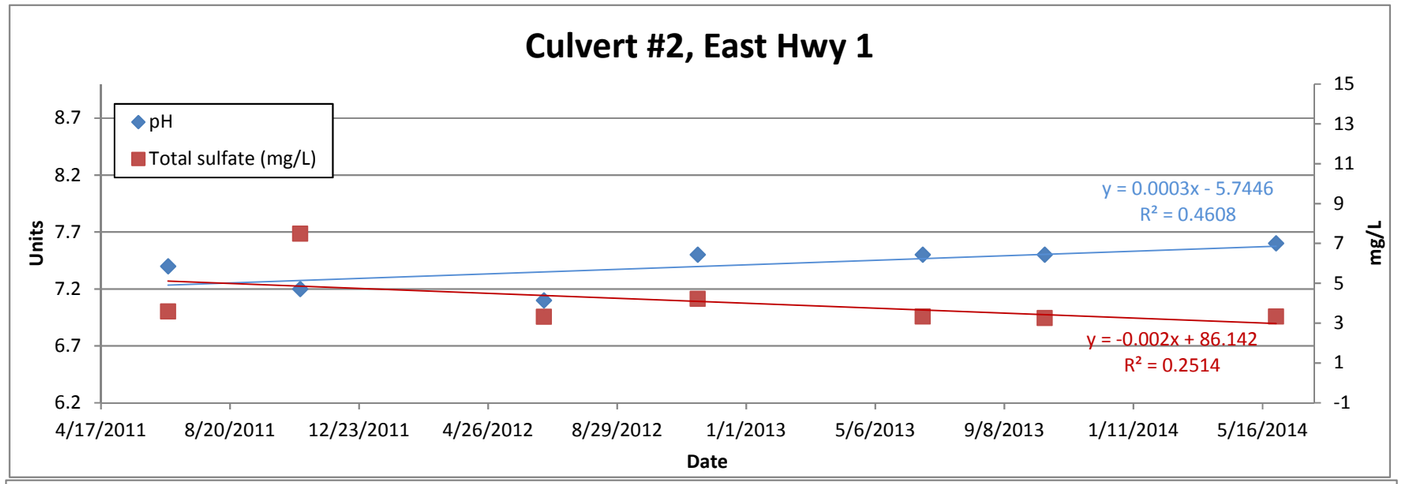
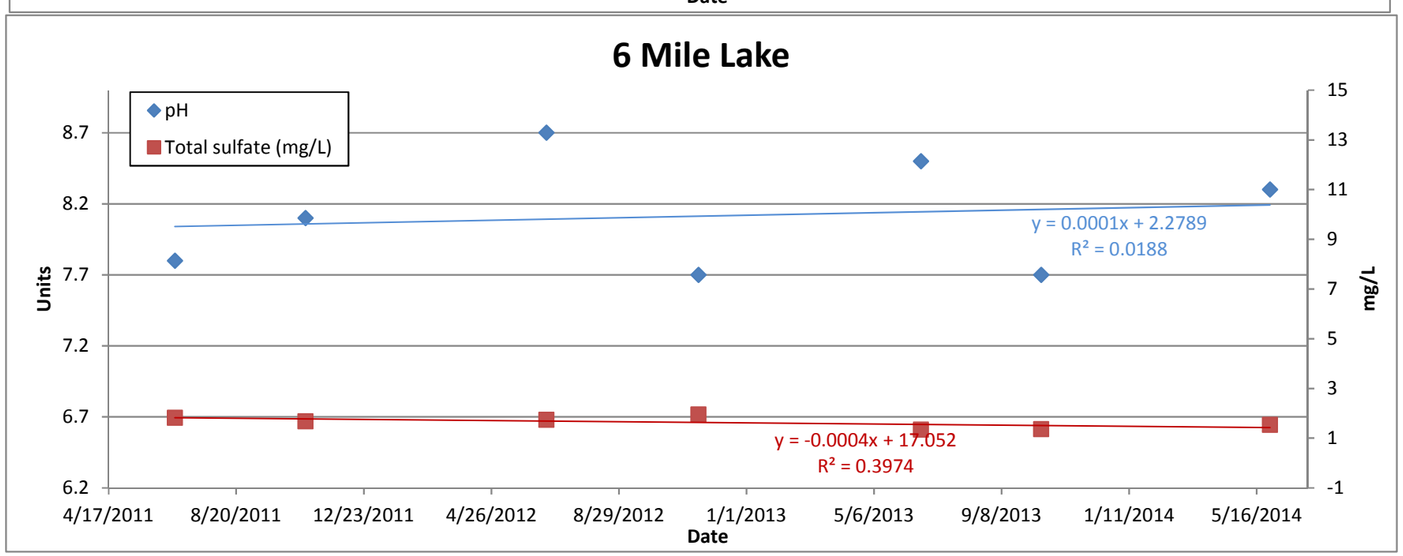

Culvert #1, West Hwy 1
pH
Total sulfate (mg/L)
y = -0.0028x + 120.96
R² = 0.0549
y = 1E-05x + 7.014
R² = 0.0006
Units
mg/L
Date
8.7
8.2
7.7
7.2
6.7
6.2
15
13
11
9
7
5
3
1
-1
4/17/2011
8/20/2011
12/23/2011
4/26/2012
8/29/2012
1/1/2013
5/6/2013
9/8/2013
1/11/2014
5/16/2014


Culvert #2, East Hwy 1
pH
Total sulfate (mg/L)
y = 0.0003x - 5.7446
R² = 0.4608
y = -0.002x + 86.142
R² = 0.2514
Units
mg/L
Date
8.7
8.2
7.7
7.2
6.7
6.2
15
13
11
9
7
5
3
1
-1
4/17/2011
8/20/2011
12/23/2011
4/26/2012
8/29/2012
1/1/2013
5/6/2013
9/8/2013
1/11/2014
5/16/2014


6 Mile Lake
pH
Total sulfate (mg/L)
y = 0.0001x + 2.2789
R² = 0.0188
y = -0.0004x + 17.052
R² = 0.3974
Units
mg/L
Date
8.7
8.2
7.7
7.2
6.7
6.2
15
13
11
9
7
5
3
1
-1
4/17/2011
8/20/2011
12/23/2011
4/26/2012
8/29/2012
1/1/2013
5/6/2013
9/8/2013
1/11/2014
5/16/2014

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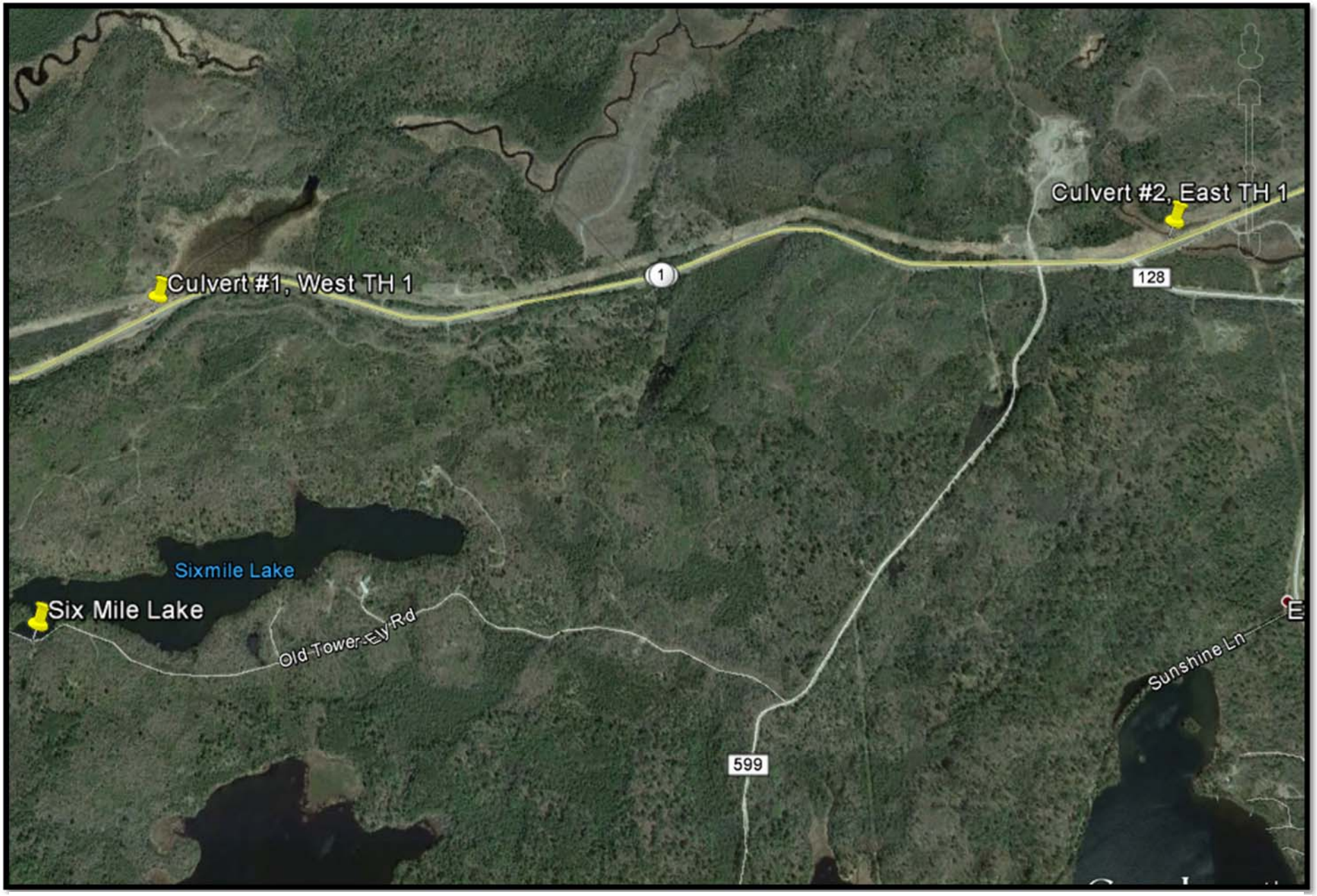

TTH 1/Hwy 169 WQ/Sulfate Sampling Locations

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